JENSEN

NAV101

Installation and Operation Manual

powered by smart2go

CONTENTS

Thank you for choosing a Jensen product. We hope you will find the instructions in this owner's manual clear and easy to follow. If you take a few minutes to look through it, you'll learn how to use all the features of your new Jensen NAV101 navigation system for maximum enjoyment.

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INTRODUCTION

We hope that you enjoy using your new Jensen NAV101 navigation system. This manual is designed to help you get the most out of your system. This navigation system leads you straight to your destination. You can navigate and plan your route with an easy-to-use and intuitive interface, plan your trip to suit your personal preferences and interests, and find and save (bookmark) interesting destinations before you begin your trip.

Key Features

- S.M.A.R.T.™ - (Smart Mapping Avoids Routine Traffic) enables you to navigate around heavy traffic areas with ease. (S.M.A.R.T. Route Guidance)
- Powered by gate5 / Nokia Smart2Go
- Teleatlas Map Data
- > 4 million POI (Point Of Interest)
- Speed Sensitive Zoom
- Enhanced Female TTS Voice Guidance Engine
- Standard Male / Female Voice Guidance Engine
- Turn by Turn Voice Guidance
- Back-Up Data DVD

Specifications

- Samsung S3C2440 (ARM9) 400MHz Processor
- 64MB SDRAM
- 32MB Nand Flash
- Win CE 4.2
- Storage - External SD Card Slot (2GB Card Included w/ Map Data)
- Sirf III 20 Channel GPS antenna
- Operating Voltage - Received from Head Unit (11 ~ 16VDC, Negative Ground)

Parts List

- NAV101 navigation module
- SIRF III Antenna with magnetic mount
- Left and right mounting brackets
- Four rubber feet (to affix to the bottom of the NAV101 in the recessed area near each corner)
- SmartBus cable (used to connect the NAV101 to the Jensen navigation-ready radio)
- Four 6mm (.25in) screws (to secure the left and right mounting brackets to the NAV101 navigation module)
- One 2 Gigabyte SD Card pre loaded with map/navigation software
- Two 11mm (.4in) screws (for fastening the SmartBus cable to the radio and NAV101)
- DVD with backup software for map data and navigation

About GPS and GNSS

The NAV101 is a vehicle GPS (Global Positioning Satellite)-based navigation device which utilizes digital map data to guide you from your selected location A to location B, using location information obtained from a Global Navigation Satellite System (GNSS).

A GNSS consists of a set of satellites that transmit high-frequency radio signals containing time, direction, and distance data that can be picked up by a receiver, allowing users to pinpoint their precise locations anywhere around the globe. Navigation Satellite Receivers (GPS devices) use this transmitted information to calculate an exact location on the earth. Every point on Earth can be identified by latitude and longitude. The receiver uses the information sent by at least three satellites and determines the coordinates of the receiving device.

By comparing the time the signals were transmitted from the satellites and the time they were recorded, the receiver calculates how far away each satellite is. The distance of the receiver from three or more satellites reflects its position on the surface of the planet. Using these distance measurements, the receiver might also be able to calculate speed, bearing, trip time, distance to destination, altitude, etc. The GPS position may be displayed as a point on a digital map (at least three satellites' signals must be received) and as the GPS device moves the corresponding trace is displayed as well.

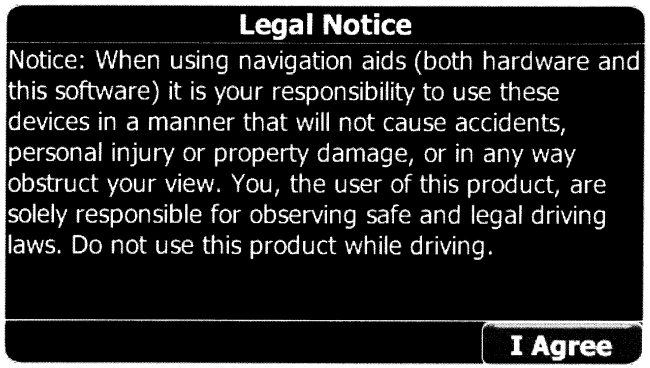
Please keep in mind that although the radio signals of navigation satellites will pass through clouds, glass, plastic, and other lightweight materials, satellite-navigation receivers will not work underground or in some enclosed spaces.

Smart2Go Navigation / Tele Atlas Map Data

The NAV101 2GB SD card is pre-loaded with the Smart2Go navigation engine and Tele Atlas map data. The map data covers the continental US, Canada, Alaska, Hawaii and Puerto Rico.

SAFETY INFORMATION

When the Jensen NAV101 is first turned on, the following message appears:


Legal Notice
Notice: When using navigation aids (both hardware and this software) it is your responsibility to use these devices in a manner that will not cause accidents, personal injury or property damage, or in any way obstruct your view. You, the user of this product, are solely responsible for observing safe and legal driving laws. Do not use this product while driving.
I Agree

You must agree to the above notice before operating the NAV101.

The following safety rules must be followed to prevent accidents that can result in injury or death to yourself or others:

- The driver should operate the device only when the vehicle is stopped. Only a vehicle passenger should operate the device while the vehicle is moving. When driving, the need to view the display is minimal. Voice prompts will guide you to your destinations.
- It is your responsibility to comply with all traffic laws.
- The NAV101 is designed to assist you in the process of reaching your destination. It is not a substitute for attentiveness and good judgement. It is your responsibility to disregard any unsafe, hazardous, or illegal route suggestions.
- The device does not include, analyze, process, consider, or reflect any of the following:
  a. Legal restrictions (such as vehicular type, weight, height, width, load and speed restrictions);
  b. Road slope or grade, bridge height, width, weight, or other limits;
  c. Population density;
  d. Neighborhood quality or safety;
  e. Availability or proximity of law enforcement, emergency rescue, medical, or other assistance;
  f. Construction work zones or hazards;
  g. Road or lane closures;
  h. Road, traffic, or traffic facilities' safety or condition;
  i. Weather conditions;
  j. Pavement characteristics or conditions;
  k. Special events;
  l. Traffic congestion.
- While every attempt is made to ensure that the database is accurate, roadways, points of interest, and business and service locations may change over time.
- Do not use the NAV101 to navigate to a police station, hospital, etc. in an emergency. Call 911 for assistance.
- Laws in some states prohibit wearing stereo headphones or may prohibit use or placement of a navigation device while operating a motor vehicle. Please contact your state's Department of Motor Vehicles for information.

INSTALLATION

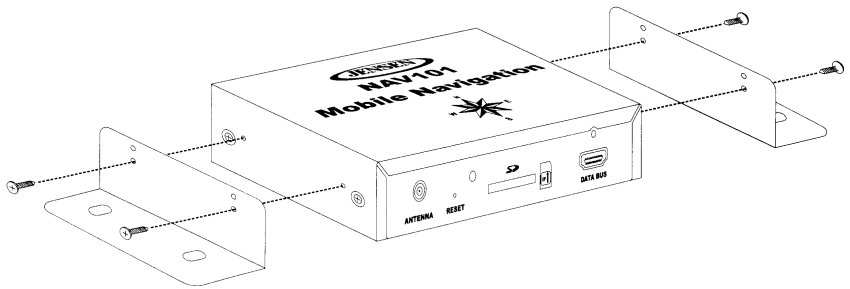
The NAV101 can be used with a Jensen navigation-ready DVD unit (VM9412, VM9512, VM9022).

Warnings

- Do not install components in areas which are susceptible to rain, moisture, direct sunlight, extreme heat or cold, excessive dust, dirt or humidity.
- Do not install the NAV101 where it will obstruct the driver's view or interfere with the vehicle's operating system or safety features (air bags, hazard light buttons, etc.).
- Use only installation parts and hardware provided with the unit. Use of other parts can cause malfunction and possible damage to your navigation system.
- This product should only be installed in vehicles with a 12-volt battery with negative grounding. Check the battery voltage of your vehicle before installation.
- To avoid shorts in the electrical system, be sure to disconnect the negative (–) battery cable before beginning installation.

NAV101 Placement

The NAV101 should be installed under the back or front seat. It can also be installed in the trunk, if necessary. Do not install the NAV101 where it will come in contact with water or direct sunlight. Mount the supplied brackets to the NAV101 using the 4mm (.25in) screws provided.



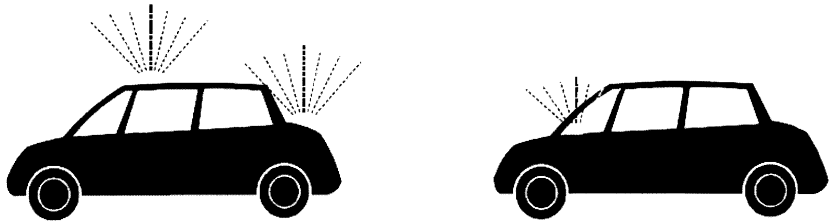
NOTE: Be sure to install the NAV101 in such a way that the SD card slot is accessible after install, allowing for the removal/insertion of the SD card for future changes to map data or upgrades.

WARNING! Be sure to secure all wires/cables safely away from the steering wheel, shift lever, and gas or brake pedal.

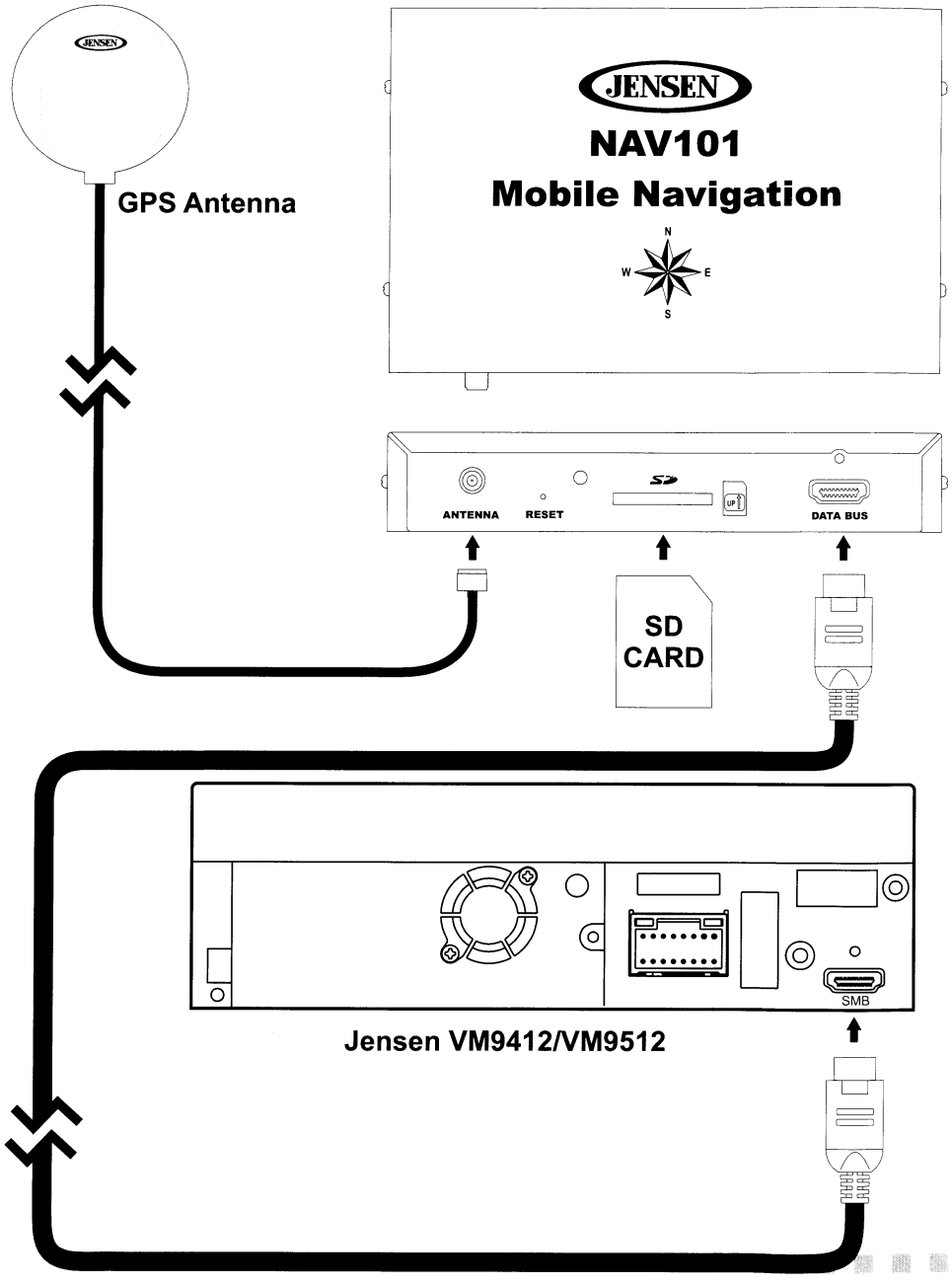
Antenna Placement

Since the NAV101 uses GPS technology for navigation, proper antenna placement is crucial for optimal performance of the GPS receiver. When using GPS antennas, the antenna plane should be parallel to the geographic horizon. There should be nothing between the antenna and the sky to ensure a direct line-of-sight between the antenna and available satellites.

The preferred antenna location is on the top of the car on the roof or trunk area. When placed on the dashboard, performance may be reduced due to obstruction caused by the window or roof.

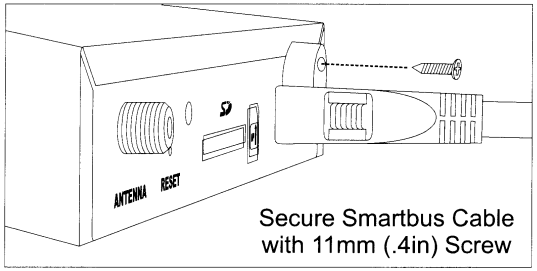


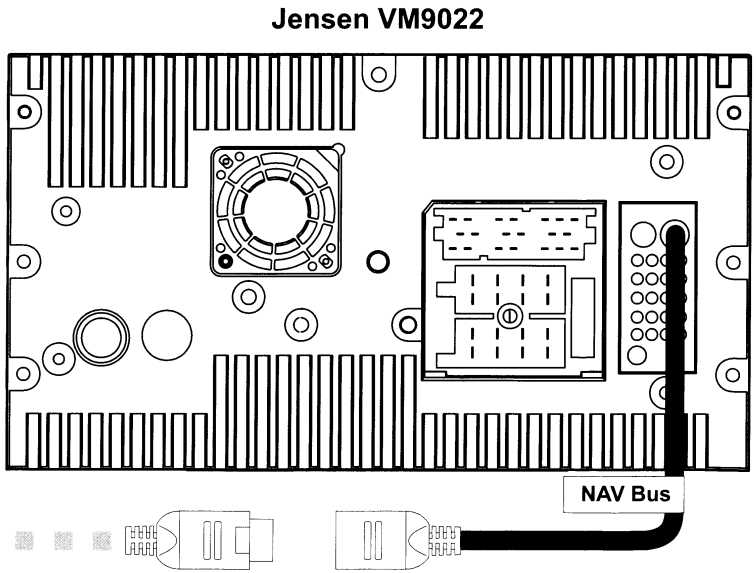
NOTE: Do not cut the GPS antenna cable to shorten or lengthen it.



Connections

1. Insert one end of the Smartbus cable into the "DATA BUS" slot on the side of the NAV101 and secure it with a 11mm (.4in) screw (provided). Connect the other end of the cable to the NAV101 input on the back of your Jensen navigation-ready head unit (VM9412, VM9512, VM9022). If using a VM9412 or VM9512, secure the cable to the radio using a 11mm (.4in) screw. The VM9022 has a cable to cable connection and does not require an anchor screw.
2. Attach the GPS Antenna to the "ANTENNA" jack on the side of the NAV101.
3. Insert SD card into the SD card slot and gently press the card in against the spring latch until it stops, then release. The card will "lock" firmly into place inside the SD card slot.





GETTING STARTED

The initial GPS location lock is best established when your vehicle is parked. If the device is in motion, the signal can take longer to initially connect. Once the initial coordinates are established, the software will follow you as you move and navigate.

NOTE: It may take up to 5 minutes to establish the first connection. Subsequent connections will be faster (30 seconds to 1 minute), but if you have not used the unit for several days or are very far away from the last location you used it, it may take up to 5 minutes again to find a strong signal.

Set time zone

Your NAV101 automatically determines the time through the GPS signal. However, you must set your time zone.

- Select your time zone from the list. You can change the time zone later (see "General Settings" on page 16).
- Press the confirmation icon.

View Safety Precautions

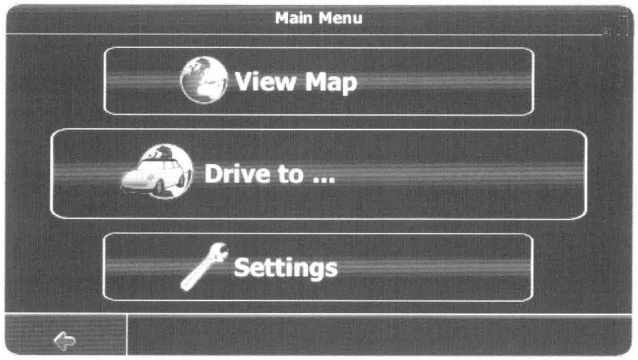
Next, a screen with safety precautions will be shown.

1. Read the safety precautions.
2. Press "I Agree" to continue to the Main Menu.

MAIN FEATURES

Main Menu

The main menu is your central point of access to all functions of your NAV101. It allows you to set your destination, manage your favorites and control all settings of your device.



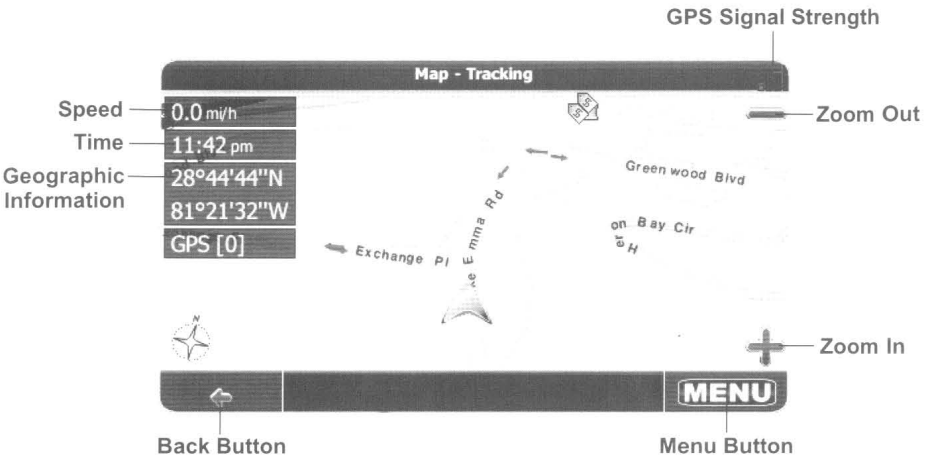
The "Main Menu" consists of the following options:

- **View Map**: Press to view your current location on the Tracking Map.
- **Drive to...**: Choose your destination – either by searching for an address, choosing an entry from the POI (point of interest) directory, selecting a location from the map, or by choosing a destination from a saved list of recently visited locations or favorites (see "Choosing and Finding Locations" on page 8).
- **Settings**: Configure your navigation to suit your needs. Define general settings (e.g. time, language, or system of measurement), configure your map (e.g. 2D or 3D mode, day or night mode, map complexity) or load a map of a different region, set the route options (e.g. choose to avoid or allow toll roads or ferries, or change the volume (see "Settings Menu" on page 16).

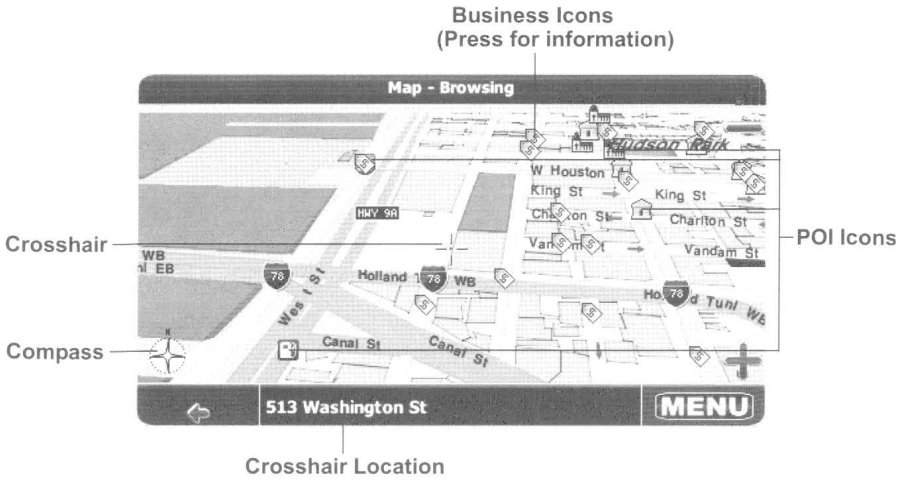
Map Tracking and Browsing

The map is the core component of your NAV101. It will be centered on your current location by default, provided you have a GPS connection. You can browse the map, display information about the different locations shown on it and choose them for routing and navigating. The map knows two basic states, the Tracking and the Browsing mode.

In Tracking mode, the map follows your actual position (GPS position), displaying information about your geographic position, your speed, etc. The GPS position is indicated by a green arrow.



Use a stylus or your finger to browse the map and enter Browsing mode. The selected position will be identified by a crosshair cursor. The screen is highlighted in orange when in Browsing mode.

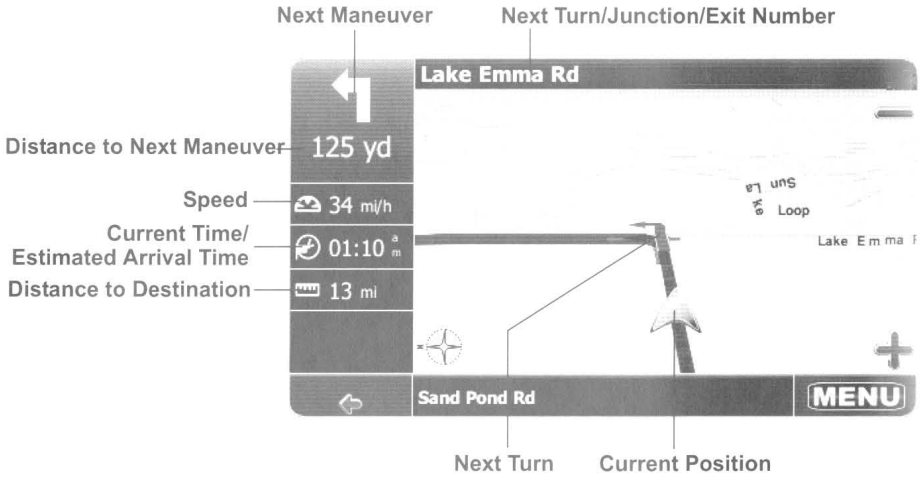


NOTE: Pressing an icon on the map opens an overlay window with information about the selected item.

- To zoom in or out, press the + or – icons. After pressing one of the icons, the zoom slider will appear, enabling smooth zooming.
- With the compass icon (in the bottom left hand corner) you may adjust the orientation.
- If you want to return to the tracking mode, press the button.

Navigation Screen

The navigation screen displays your route (in blue) and your surroundings. A green arrow identifies your current position. The red arrow will indicate the direction of your next turn. The upcoming maneuver is also visualized in the upper left corner, along with the distance to that turn. When you come up to a turn, you will hear a voice command at the appropriate time.



On the left, additional information, including the current and estimated arrival time and the distance to your destination, is displayed.

For one-way streets, the transit direction is indicated with a red arrow.

For more information about navigation, see "Navigating" on page 12.

CHOOSING AND FINDING LOCATIONS

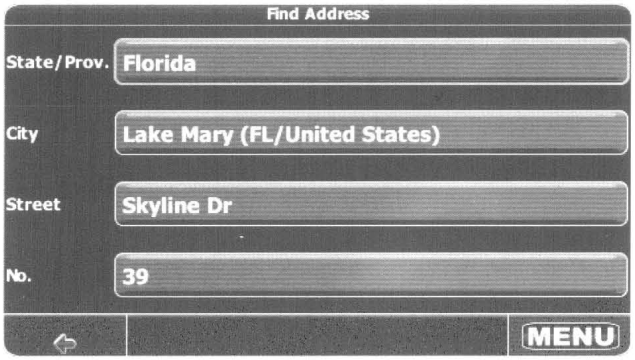
This section describes the different ways of finding and choosing locations. You can search for an Address, search POI (Point of Interest) directories and city guides, select a recent destination or choose from your Address Book, or select a location on the Map.

NOTE: If a route is in progress when you exit the NAV101 system, the unit will prompt "Do you want to resume the last route?" when you resume operation.

Finding an Address

Find addresses through the Address search. Just enter information about the desired target, select a hit from the results list and use the address found for different purposes, like showing it on a map, planning your route, and navigating.

1. From the main menu, press **Drive to...**.
2. Press **Address**. The "Find Address" window will be displayed:



- Your NAV101 offers a convenient interactive look-ahead search function to prevent misspelling. Only keys that lead to a search result can be pressed – all others are greyed out.
- After entering the second character, only letters that can be used to spell an existing destination will be available for selection of the third character, the fourth character, and so on.

- Continue entering characters until you have narrowed down the search to only one result, or press the **OK** button to display a list of search results, from which you can choose.
- If at any point you want to backspace and delete characters, press the backspace button (**<-**) on screen.
- To add a space, press the space bar (_).
- If you need to enter an apostrophe ('), use the space key instead.

3. Select a State/Prov.
   a. Press the "State/Prov." data field to access the "Select State" screen.
   b. Choose a state from the list by pressing to highlight it. Use the scroll bar on the right of the screen to view all of the choices.
   c. Press the **OK** button to choose the highlighted State/Prov. and return to the "Find Address" screen.
4. Select a City.
   a. Press the "City" data field to access the "Enter..." screen.
   b. Use the on-screen keypad to enter the City name. If the first two characters are not part of an existing City name, "No entries found" appears on the screen.
   c. Press the **OK** button to select the entered name or select from a list of matches based on the letters you entered.
   d. Press the **OK** button to choose the highlighted City and return to the "Find Address" screen.
5. Select a Street.
   a. Press the "Street" data field to access the "Enter..." screen.
   b. Use the on-screen keypad to enter the Street name. If the first two characters are not part of an existing Street name, "No entries found" appears on the screen.
   c. Press the **OK** button to select the entered name or select from a list of matches based on the letters you entered.
   d. Press the **OK** button to choose the highlighted Street and return to the "Find Address" screen.
6. Select a street No.

a. Press the "No." data field to access the "Enter..." screen.
b. Use the on-screen keypad to enter the street Number.
c. Press the **OK** button to enter the street Number. If the Number you entered is not an existing street Number, "House number not found. Street will be used for destination." appears on the screen. You will automatically return to the "Find Address" screen.

7. Press the **MENU** button to view the following screen:

- To navigate to the location, select **Navigate**.
- To use the location for planning a route, select **Waypoint**.
- To save the location as a bookmark, select **Save**.
- To view the location on the map, select **On Map**.

Searching for and Choosing a POI (Point Of Interest)

The POI finder allows you to quickly find points of interest, like gas stations and restaurants, in a database of millions of POIs. These places can be near your current position (the default) or at any other location.

Browse POIs

1. From the main menu, press **POI Search**. The "POI Search" window will be displayed:

2. Select an area for the POI search. Although the text in the white "Where?" box shows your current location, you must press the **Where?** button to set your current location for the POI search or enter a new location.

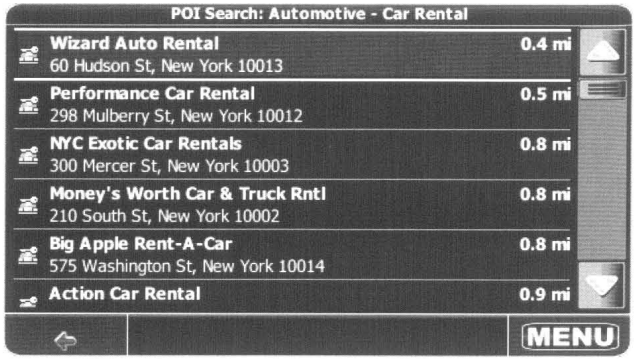
NOTE: The first time the POI search is used, the default location will be New York City. You must press the Where? button to choose your current location or specify another location.

a. To search for a POI in another location, press the "Where?" button. A screen with navigation options appears.

b. Press the corresponding button to search for a new address using the "Enter..." screen (Find Address), My Address Book, or your current GPS Position. To skip this step and return to the "POI Search" screen press **Back**.

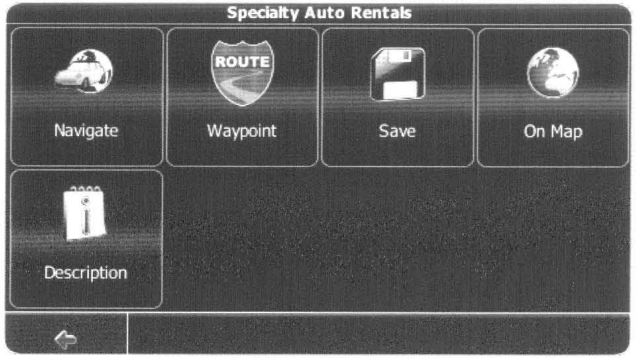
3. On the "POI Search" screen, select one of the following POI categories: Automotive, Overnight, Dining, Sights, Shopping, Leisure, Service, Transport. A menu with sub-categories will be shown.

4. Select a sub-category from the POI Search list. A list of POIs will be shown.


POI Search: Automotive - Car Rental
Wizard Auto Rental 0.4 mi
60 Hudson St, New York 10013
Performance Car Rental 0.5 mi
298 Mulberry St, New York 10012
NYC Exotic Car Rentals 0.8 mi
300 Mercer St, New York 10003
Money's Worth Car & Truck Rntl 0.8 mi
210 South St, New York 10002
Big Apple Rent-A-Car 0.8 mi
575 Washington St, New York 10014
Action Car Rental 0.9 mi
MENU

- Use the scroll bar on the right side of the screen to see all of the choices.
- To return to the previous category, press the button.

5. Press a POI to select it and display the following navigation options:



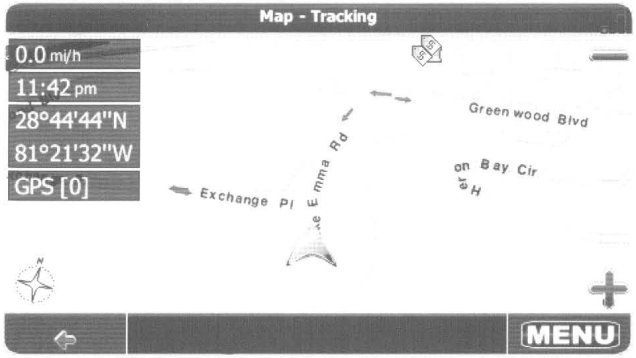
- To navigate to the location, select **Navigate**.
- To use the location for planning a route, select **Waypoint**.
- To save the location as a bookmark, select **Save**.
- To view the location on the map, select **On Map**.
- Press **Description** to view detailed information about the chosen POI, including address and telephone number, when available.

Search POIs

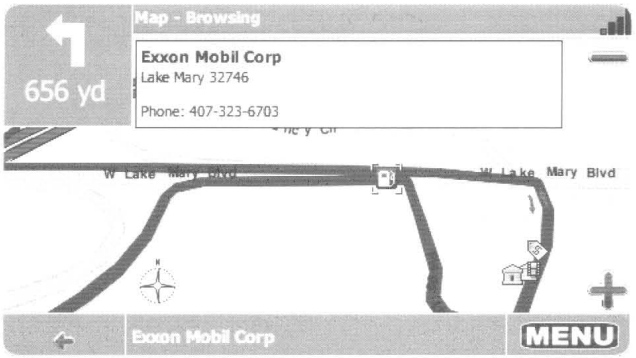
1. To search for a POI, return to the "POI Search" screen and press the **ABC** button. The "Enter..." screen will appear.
2. Enter the search keyword (at least three characters), and press the **OK** button. A list of POIs beginning with the search keyword appears on the screen. (If there are no POIs containing your search criteria, "No entries found." appears on the screen.)
3. Press the POI to select it and view navigation options. Continue navigation as instructed in the previous section.

Choosing a Location on the Map

1. From the "Main Menu", press **View Map**. The "Map - Tracking" window will be displayed, indicating your last location:



2. Press any part of the map area to enter browsing mode and navigate the map. During browsing, the map screen borders will turn orange. Use the +/– buttons to zoom in/out. Point the cursor at any location on the map to view location information in a pop-up box.



3. Press the **MENU** button to view navigation options for the selected destination.

Navigating to a Recent Location

1. From the "Main Menu", select **Drive to...**.

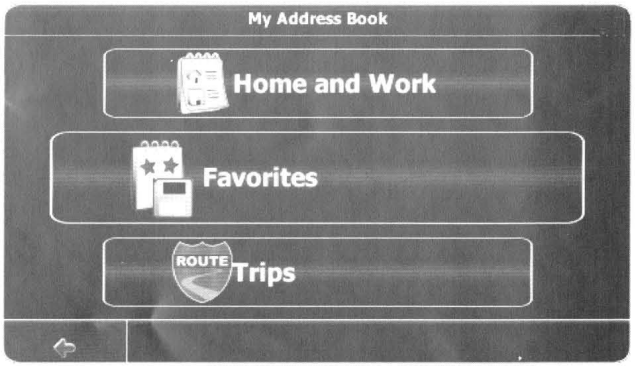
2. From the "Drive to..." menu, select **Recents**. A list of recent locations will appear on the screen:

3. Press to select a recent destination from the "Recents" list. (Use the scroll bar on the right side of the screen to see all of the choices.) A screen with navigation options appears.
4. Continue navigation as instructed in the previous sections.

NOTE: The "Recents" list stores the last 15 addresses or destinations. After 15 entries, the oldest destination will be deleted and the newest entry added to the top of the list. Recent addresses cannot be deleted manually.

Choosing a Location from your Address Book

1. From the "Main Menu", select **Drive to...**.
2. From the "Drive to..." menu, select **My Address Book**. The "My Address Book" screen will be displayed:



3. Select one of the following Address Book categories: Home and Work, Favorites, Trips. The "Home and Work", "Favorites" or "Trips" screen will appear, depending on your selection.
4. Press a bookmarked location to select it and display available navigation options.
5. Continue navigation as instructed in the previous sections.

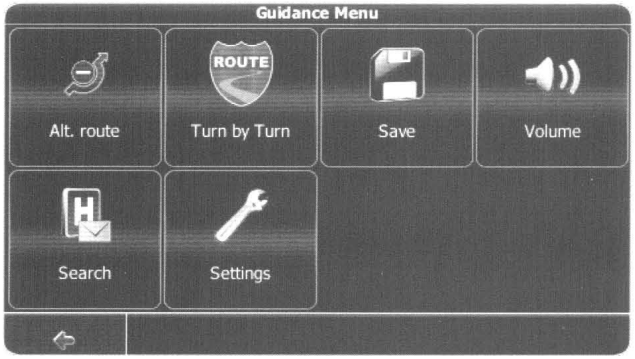
NAVIGATING

The powerful navigation capabilities of your NAV101 will guide you along the shortest or quickest route from A to B – with voice commands and in 3D (optional).

To begin navigation, select a location using the **Drive to...** feature (see "Choosing and Finding Locations" on page 8).

Using the Guidance Menu

To view available menu options during navigation, press the **MENU** button. The "Guidance Menu" appears on the screen:



Alt. route

With this option, you can choose to block the calculated route for a given distance (e.g., 0.5 mile) and force an alternate route. Simply tap on the icon which shows the desired distance to block. Your route will be recalculated, and the previous route will be discarded for the given distance.

Turn by Turn

Opens the list of the waypoints (turns) along your route.

Save

Save your present position as a favorite.

Volume

Alter the volume of the voice commands.

Search (POI)

Redirect your route by adding a point of interest (POI) stop, e.g., a gas station.

Settings

Change the device settings as described in "Settings Menu" on page 16.

Browsing the Map During Navigation

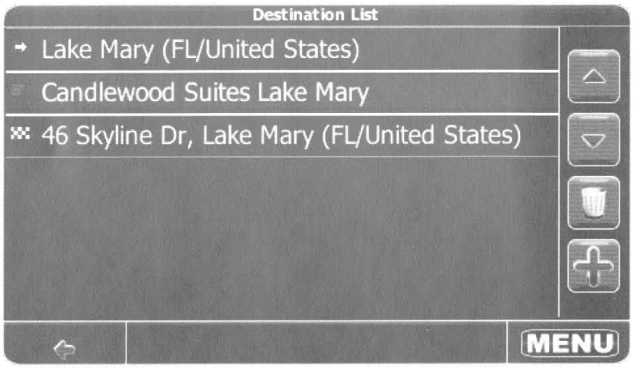
You can browse the map while navigating without interrupting the current route – you will still be guided through voice commands.

- To browse during navigation, simply touch the "map" (the screen) and the Map Browsing feature is automatically activated. During browsing, the map screen borders will turn orange until the **Back** button is pressed to return to the guide.
- Press the button to return to on-screen navigation.

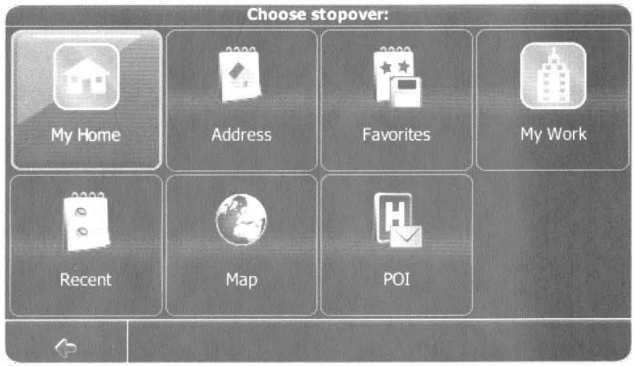
PLANNING A ROUTE

This section describes the route planning feature. This feature allows you to plan your route in advance, choosing multiple stopovers along your journey.

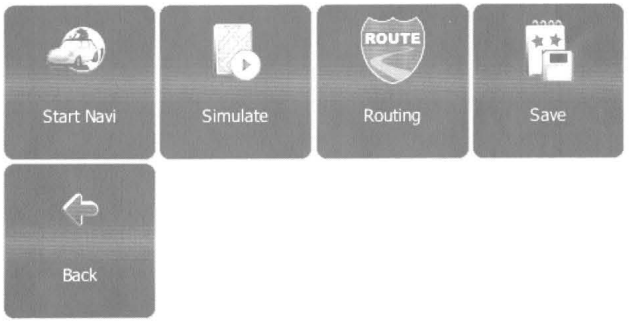
1. To begin navigation, select a location using the **Drive to...** feature (see "Choosing and Finding Locations" on page 8).
2. Select **Waypoint** to view the "Destination List", where you will see the location you just entered.



3. Press the **+** icon to add a stopover to your route. The "Choose stopover" screen appears:



4. Choose stopovers like your home or work addresses, a favorite, a point of interest, a recent location, or you can search for an address or pinpoint a destination on the map.
5. After adding stopovers, you can modify your trip using the following features:
   - Use the **+** icon to choose additional stopovers.
   - To change the order of the stopovers, select a stopover and then use the up and down arrows to move it up/down in the list.
   - Use the Trash icon to delete a selected stopover.
6. Once you have chosen your route, press the **MENU** button in the bottom right-hand corner of the screen. The following options are available:



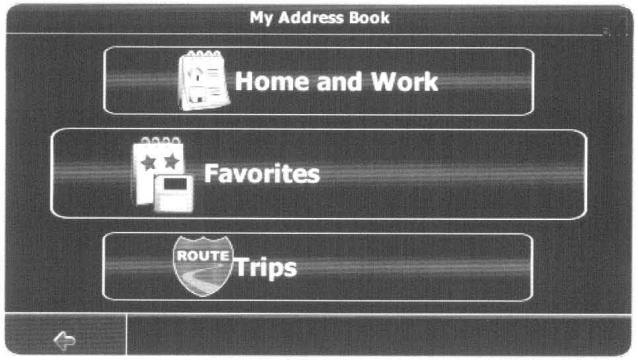
- To begin navigation, press **Start Navi**. The display will switch to the navigation map.
- To simulate the planned route, press **Simulate**. The device will calculate the route based on a user entered destination, but not actually perform navigation guidance based on GPS signals. This setting is primarily used for preview or for checking various routes and turns.
- To calculate the route, press **Routing**. Once the route is calculated, the "Route Summary" will be displayed. Select an item from the "Route Summary" to display the "Turn by Turn" list. When you press (highlight) a turn, the system will prompt "Do you want to delete this waypoint?". Choose **Yes** or **No**. Press the button to view the route beginning with the highlighted turn.
- To save the route as a favorite trip, press **Save** (see "Favorites" on page 15).
- To return to the previous screen, select **Back**.

***NOTE:** When planning a route, you can select the Waypoints option to add or delete stopovers on your trip. When adding a new beginning or ending point, the system will not automtically eliminate stopovers. The unwanted stops must be manually removed by selecting them and pressing the Trash can icon.*

MANAGING YOUR ADDRESS BOOK

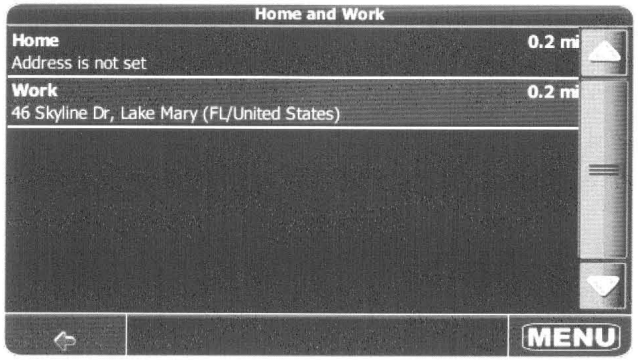
The Address Book allows you to save your home and work locations, as well as other frequent destinations for easy recall. After entering an address or searching for a POI, you can choose the **Save** option to bookmark your selection, eliminating the need to perform repeated searches.

To access your Address Book, select **Drive to...** from the "Main Menu", and then select **My Address Book**. The "My Address Book" screen will be displayed:

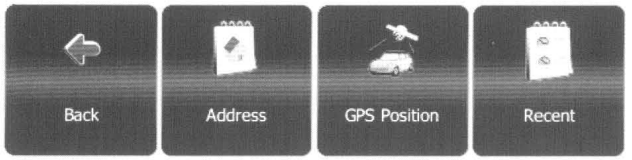


Home and Work

To access the "Home and Work" screen, press the **Home and Work** button.

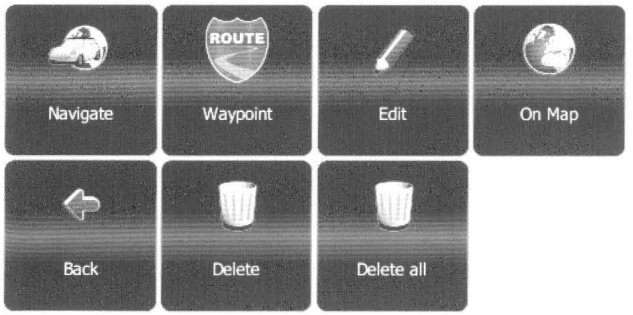


If no home address has been set, you are prompted to set one. You can choose it by searching for an address through your current GPS position or by choosing a recently visited location.To set the initial default address for work or home, press **Home** or **Work** and then choose one of the following options:



- To return to the previous screen, select **Back**.
- Select **Address** to open the "Find Address" screen and enter the address (see "Finding an Address" on page 8).
- Select **GPS Position** to bookmark your current position as your Home or Work address.
- Select **Recent** to choose your Home or Work address from a list of recent locations.

If the address is already set, press **Home** or **Work** to choose from the following options:

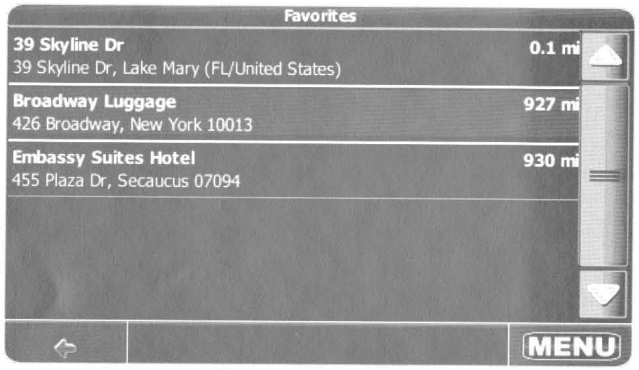


- To navigate to the location, select **Navigate**.
- To use the location for planning a route, select **Waypoint**.
- To change the bookmarked location, select **Edit**.
- To view the location on the map, select **On Map**.
- To return to the previous screen, select **Back**.
- To erase the current saved location, select **Delete**.
- To erase both Home and Work locations, select **Delete all**.

To modify or navigate to/from an address once it is saved, select the home or work address and then press the **MENU** button to select from available options.

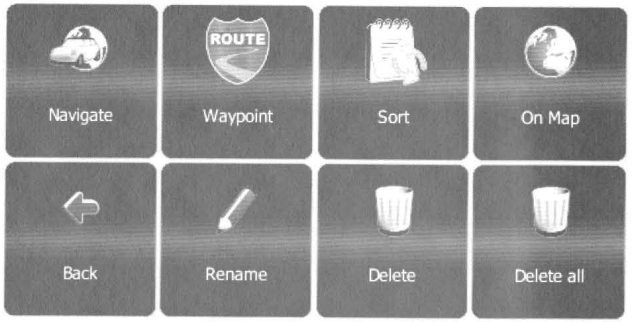
Favorites

To access your list of favorites, press the **Favorites** button. The "Favorites" screen appears:



NOTE: Use the scroll bar and arrows on the right side of the screen to move up and down the list and view all entries.

Select an item and then press the **MENU** button to choose from the following options:

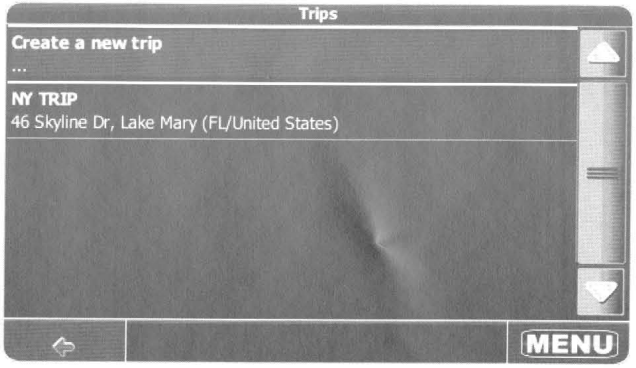


- To navigate to the location, select **Navigate**.
- To use the location for planning a route, select **Waypoint**.
- Press **Sort** to sort all entries into alphabetical order.
- To view the location on the map, select **On Map**.
- To return to the previous screen, select **Back**.
- Select **Rename** to go to the "Change bookmark name" screen and rename the selected bookmark.
- To erase the current saved location, select **Delete**.
- To erase all saved locations, select **Delete all**.

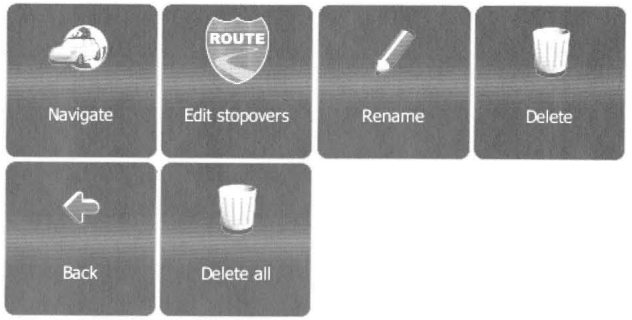
NOTE: All user information such as settings, bookmarks and recently visited locations are stored on the SD memory card and not on the device.

Trips

To access your list of saved trips, press the **Trips** button. The "Trips" screen appears:



Select a trip and then press the **MENU** button to choose from the following options.

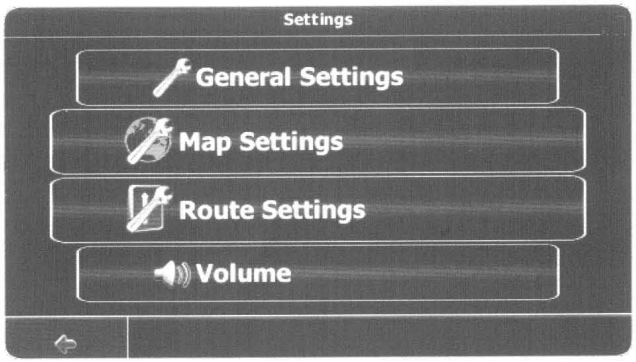


- To calculate the route for the selected trip, select **Navigate**.
- To edit existing or add new stopovers to the selected trip, select **Edit Stopovers**.
- Select **Rename** to go to the "Change trip name" screen and rename the selected trip.
- To erase the current saved trip, select **Delete**.
- To return to the previous screen, select **Back**.
- To erase all saved trips, select **Delete all**.

SETTINGS MENU

When using the NAV101 for the first time, it is recommended that you customize the system parameter settings. For example, regarding navigation, you can choose to avoid or allow toll roads or ferries or enable S.M.A.R.T. routing. You can also edit display settings, including 2D or 3D mode, day or night mode, map complexity, etc.

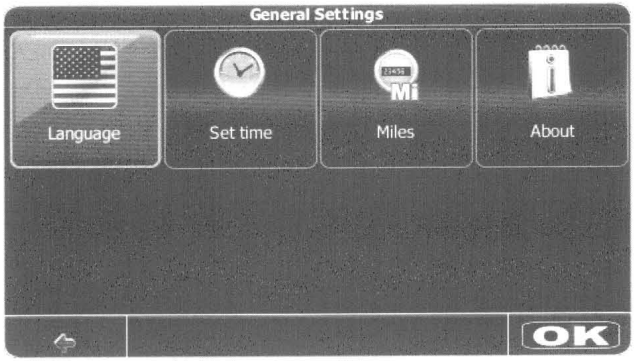
To get started, choose **Settings** from the "Main Menu".



You can always press the button to return to the previous screen.

General Settings

Select **General Settings** to modify the following options.

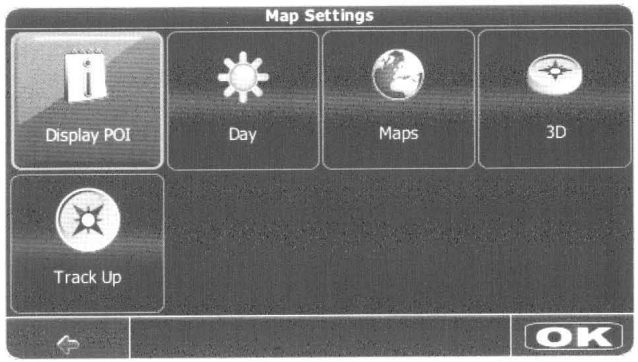


- Press **Language** to view the "Language" screen. Press the "USA" (English) icon and then select one of the following voice types for voice commands: English_US female (TTS), US English Female, US English Male
- Press **Set Time** to select the appropriate time zone from the "Time zone" menu (use the up/down arrows and scroll bar to view the entire list). Press the **OK** button to confirm and return to the "General Settings" menu.

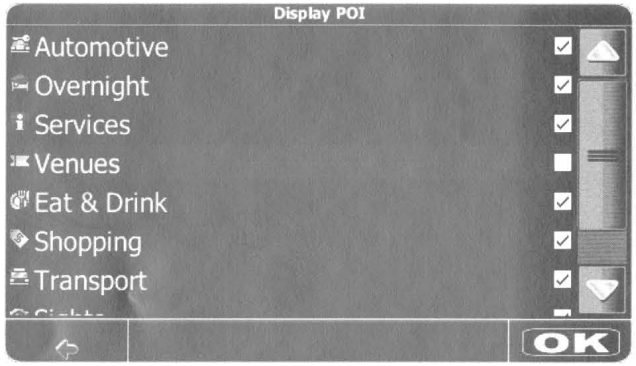
- Press **Miles/Kilometers** to change the system of measurement.
- Press **About** to view information about the application.

Map Settings

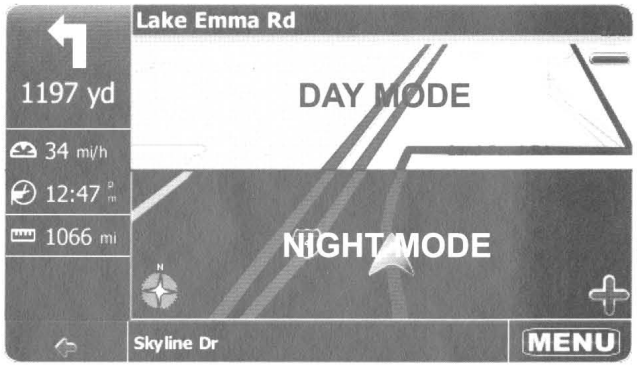
Select **Map Settings** to modify the following options.



- To select which and how many icons are displayed on the map, press **Display POI**.



  - Check the boxes of any category you want to have displayed on the map. Uncheck those that should be hidden. Note that this will NOT affect any searches that you perform.
  - To apply your settings, press the **OK** button.
- Repeatedly press the **Day/Night/Automatic** button to toggle between day and night modes. Choose **Automatic** to allow the mode to be chosen automatically based on the time of day.



- Select **Maps** to select the appropriate map (USA). If you have map data for different regions on your memory card, select the name of the current region. All available maps on the memory card will be listed.
- Press the **2D/3D** button to toggle between 2D and 3D display mode.
- Press to toggle the map display between **Track Up** and **North Up**.
  - Track Up: This mode will display the map with the vehicle direction always pointing up. The map will rotate and move accordingly during navigation while the green arrow representing the vehicle stays up and still.
  - North Up: This mode will display the map with North always pointing upward. The map will not rotate during navigation. The green arrow representing the vehicle will rotate and move according to the vehicle location on the map.

Route Settings

Select **Route Settings** to modify the following options

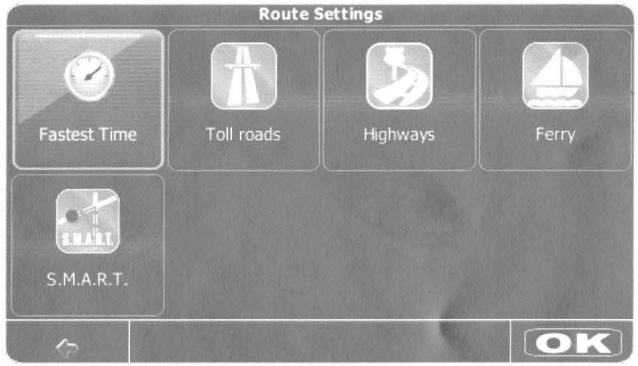


Table 1: Route Settings

	Calculate route based on the fastest time.		Calculate route based on the shortest distance.
	Use toll roads when calculating routes.		Do not use toll roads when calculating routes.
	Use highways as much as possible when calculating routes.		Try not to use highways when calculating routes.
	Use ferry travel when calculating routes.		Do not include ferry travel when calculating routes.
	Enable Smart Routing (see "Traffic Avoidance Technology (Smart Routing)" on page 18.)		Disable Smart Routing.

Press each button to toggle between the options listed in Table 1.

Traffic Avoidance Technology (Smart Routing)

Traffic Avoidance Technology (Smart Routing) uses a massive quantity of data that has been compiled over many years to provide a 'rolling average' database of the speeds that traffic actually moves on any given road within the continental USA.

When you enter the settings screen of the software, you are asked to select routing options. The Fastest Time setting takes into account the posted speed limits of the various roads and streets along a route in order to determine the correct route. The Shortest Distance setting takes into account the actual distance of the route, without regard to the types of roads or streets or their posted speed limits.

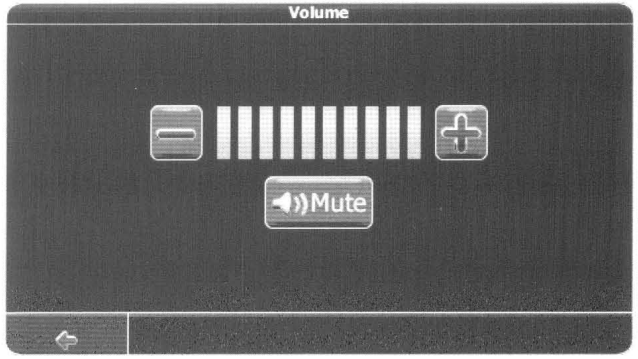
While the Shortest Distance option is an obvious calculation, the Fastest Time setting can result in a route that is impacted by rush hour tie-ups.

Smart Routing considers the 2 year rolling average of the actual speed of traffic along each roadway and further considers hour of day and day of week.

In short, Smart Routing does for you what anyone with perfect local knowledge would do – selects a route that best avoids unpleasant traffic tie-ups.

Volume

From the "Settings" menu, select **Volume** to modify the volume of voice commands.



- Press the **+** button to increase the volume.
- Press the **–** button to decrease the volume.
- Press the **Mute** button to silence or resume the voice command volume.

TROUBLESHOOTING

Table 1: Troubleshooting

Problem	Cause	Corrective Action
I can't find an address	Address spelled incorrectly	Please make sure you have correctly spelled your entry. If you do not know how an address is spelled, simply enter the parts of the address about which you are certain - e.g. "Brook" for Brooklyn in New York. Then browse the results list and look for the address. Also make sure that the city in which you are looking for an address is correct. Sometimes the official postal address differs from the address you are looking for. In that case, search for a known address nearby and browse the map.
I cannot get a good signal	Poor antenna placement	If you have problems getting a satellite fix with GPS (you can see how many satellites are being received on the main menu at the bottom left), please make sure you are outside and the GPS antenna has good 'visibility' to the open sky. Some models also support an additional external active antenna. Please consult the hardware manual of your device to get further information on how to obtain a GPS fix.
The NAV101 stops responding	Unknown	Turn the unit off and back on. If this does not help, reset the unit by using a small metal object to press the RESET button located on the side of the NAV101 unit between the ANTENNA connection and the SD card slot .

Limited Warranty

CD or Multimedia Radios/Headunits/Navigation

DO NOT RETURN THIS PRODUCT TO THE STORE

Audiovox Electronics Corporation ("the Company") is committed to quality and customer service, and are pleased to offer you this Warranty. Please read it thoroughly and contact the Company at 1-800-323-4815 with any questions.

Who is covered?

The Company extends this warranty to the original retail purchaser of products purchased through an authorized Audiovox retailer in the U.S.A., Puerto Rico or Canada. This warranty is not transferable or assignable. Proof of purchase is required in the form of an original sales receipt.

What is covered?

The Company warrants that should this product or any part thereof, under normal use, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with a new or reconditioned product (at the Company's option) without charge for parts and repair labor.

What is not covered?

This Warranty *does not* cover the following:

- Damage incurred during shipping or transporting the product to the Company or a service center
- Elimination of car static or motor noise
- Defects in cosmetic, decorative or non-operative structural parts
- Correction of antenna problems
- Costs incurred for installation, removal or reinstallation of the product
- Consequential damage to compact discs, USB devices, digital media cards, accessories or vehicle electrical systems
- Damage caused by improper installation, mishandling, misuse, neglect, accident, blown fuse, battery leakage, theft or improper storage
- Products whose factory serial number/bar code label(s) or markings have been removed or defaced
- Damage resulting from moisture, humidity, excessive temperature, extreme environmental conditions or external natural causes

Please review the "Care and Maintenance" section of your Installation and Operation Manual for additional information regarding the proper use of your product.

Limitations

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Obtaining Warranty Service

- To obtain repair or replacement within the terms of this Warranty, call 1-800-323-4815 for the location of a warranty station serving your area.
- You must prepay the initial shipping charges to the Company. The Company will pay the return shipping charges for all warranteed products returned to an address within the U.S.A., Puerto Rico or Canada.
- Please package the product securely to avoid shipping damage. We recommend using a carrier that provides tracking service to prevent lost packages. Lost or damaged packages are not covered by this warranty.
- Provide a detailed description of the problem(s) for which you require service.

JENSEN

Audiovox Electronics Corporation
Hauppauge, NY 11788
Technical Assistance: 1-800-323-4815
www.jensen.com

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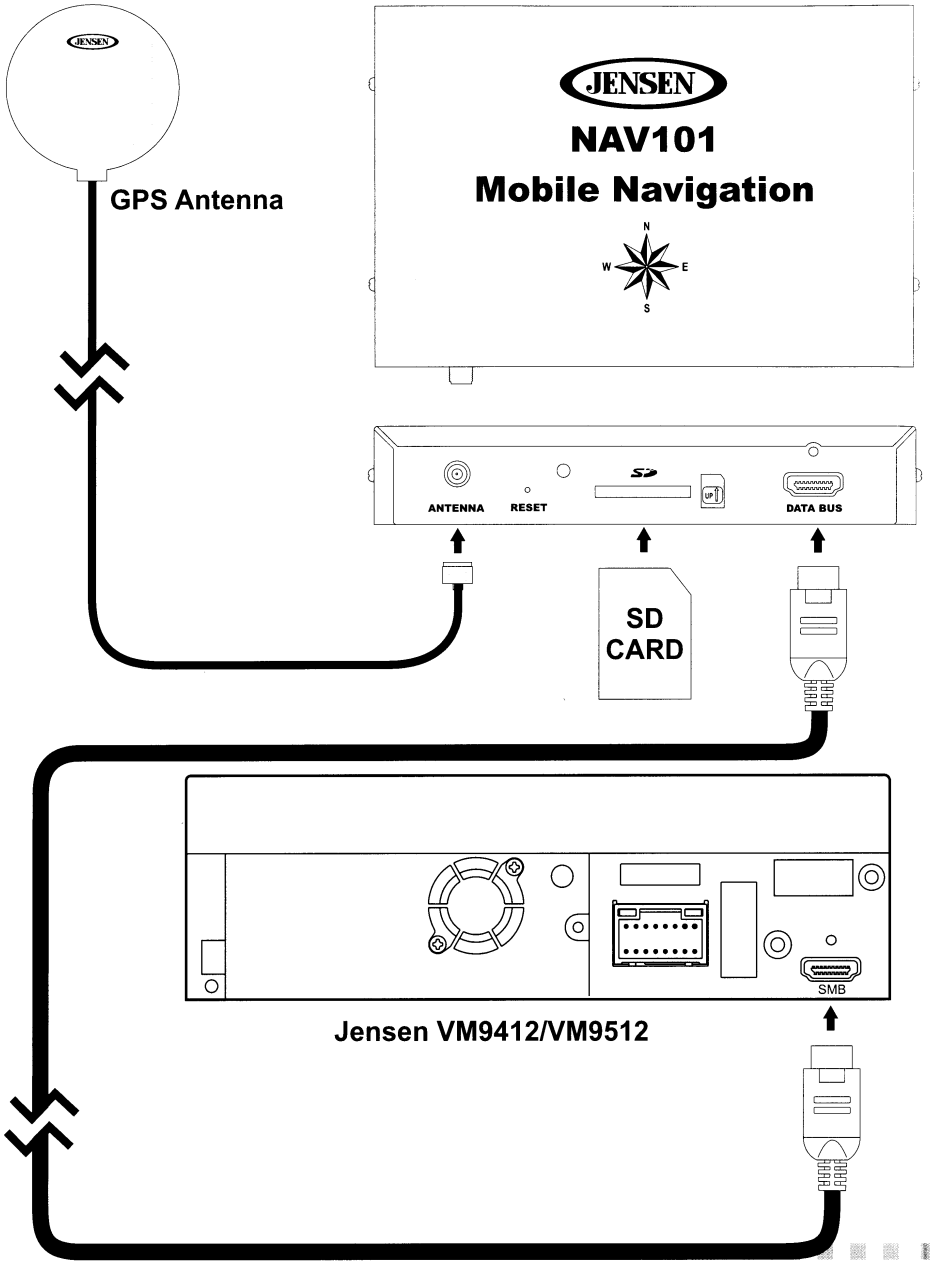
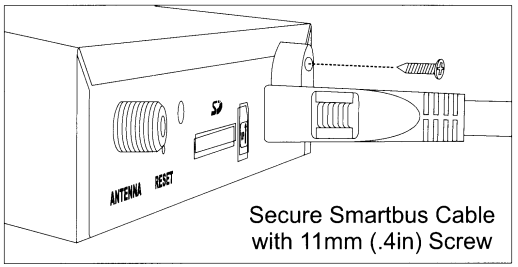
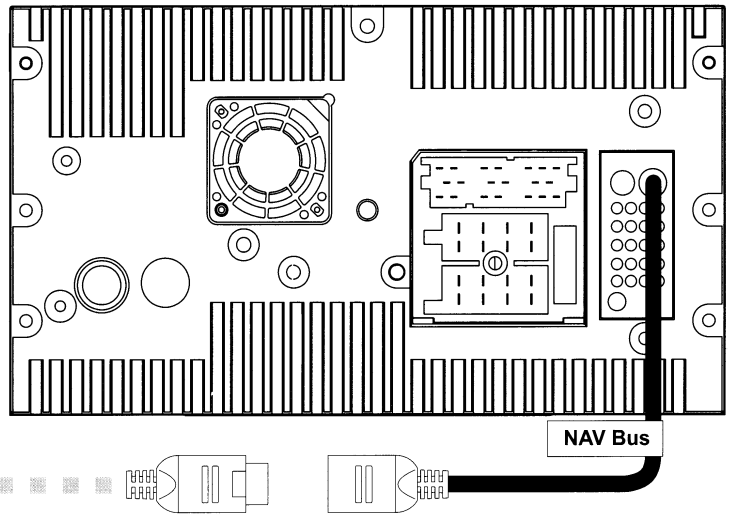
NAV101 Navigation System Quick Start Guide



1. Insert one end of the Smartbus cable into the “DATA BUS” slot on the side of the NAV101 and secure it with a 11mm (.4in) screw (provided). Connect the other end of the cable to the NAV101 input on the back of your Jensen navigation-ready head unit (VM9412, VM9512, VM9022). If using a VM9412 or VM9512, secure the cable to the radio using a 11mm (.4in) screw. The VM9022 has a cable to cable connection and does not require an anchor screw.
2. Attach the GPS Antenna to the “ANTENNA” jack on the side of the NAV101.
3. Insert SD card into the SD card slot and gently press the card in against the spring latch until it stops, then release. The card will "lock" firmly into place inside the SD card slot.





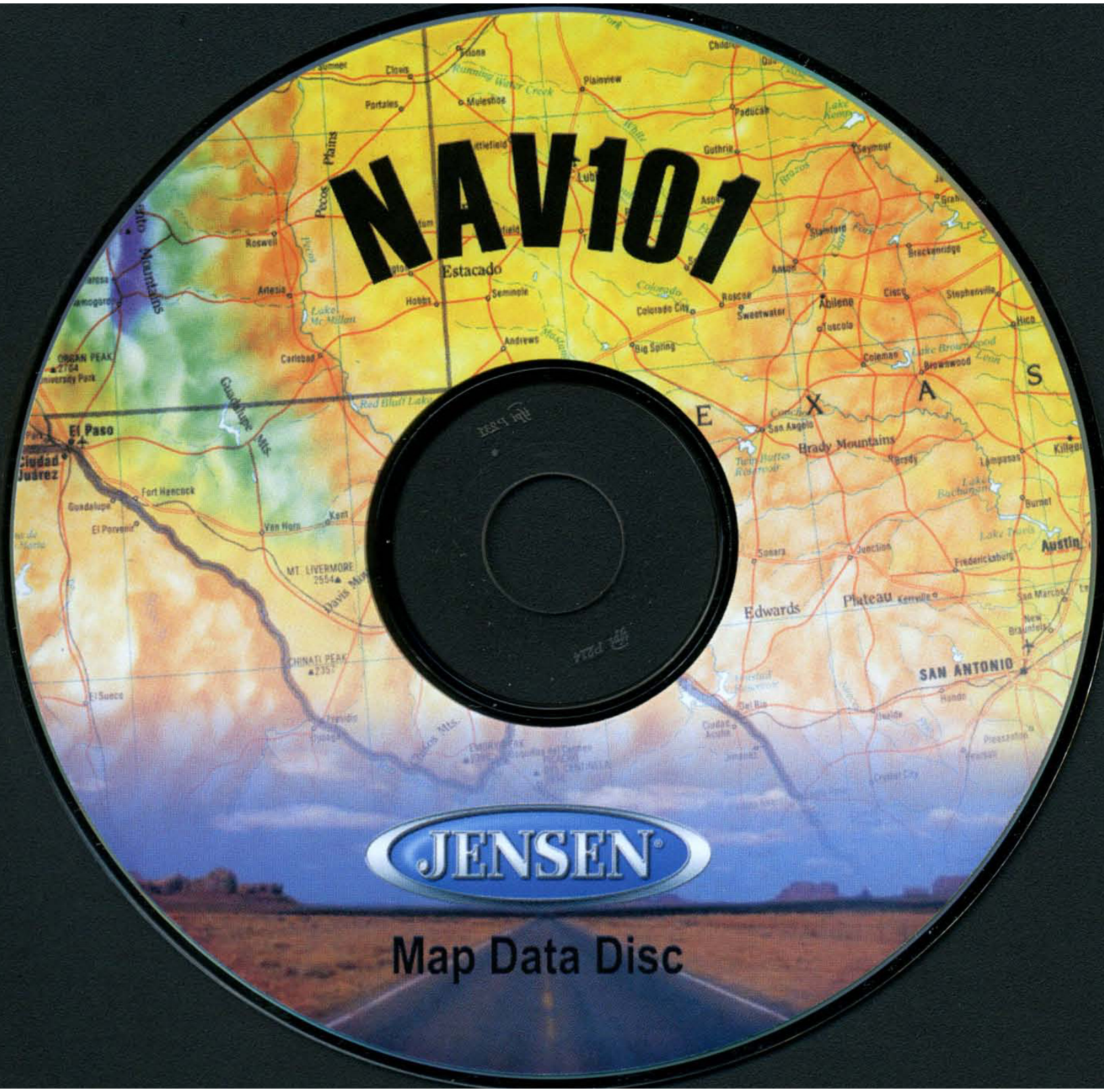
Three easy steps!

1. Visit www.jensen.com.

2. Click on the Victory Technology Installation Excellence Logo as shown above.

3. Enter your product serial number (example: xxxx_xxxxxxx_xx).

4. Follow the on-screen steps to download the Installation Excellence program!


NAV101
JENSEN
Map Data Disc
Estacado
Plainview
Portales
Muleshoe
Roswell
Artesia
Carlsbad
Hobbs
Seminole
Andrews
Big Spring
Colorado City
Sweetwater
Abilene
Brownwood
Coleman
Brady Mountains
San Angelo
El Paso
Ciudad Juárez
Fort Hancock
Guadalupe
Van Horn
Kent
MT. LIVERMORE
Sonora
Junction
Fredericksburg
Austin
Edwards
Plateau
SAN ANTONIO
Del Rio
Uvalde
Pecos
Plains
Guadalupe Mts
Davis Mts
Stamford
Anson
Roscoe
Tuscola
Lampasas
Burnet
Kerrville
New Braunfels
San Marcos

Made in China

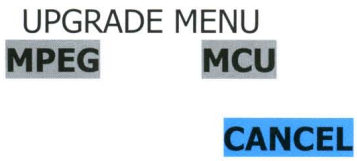
VM9022 Software Update

Updating the VM9022

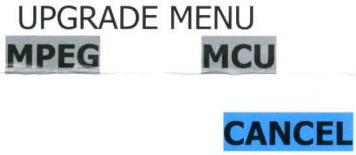
Note: When updating the VM9022, make certain that power is not interrupted while the update is in progress. If power is lost or interrupted the unit may become inoperable. This update is for the VM9022 ONLY. Do not attempt to update other "VM" series head units with this software. This software updates the TFT video driver.

Power up the VM9022 and insert the disc that came with the NAV101. **This firmware update only includes an MCU update. An MPEG update is not necessary.**

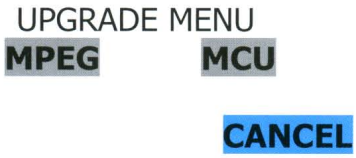
- After a few moments a menu will pop up and look like the following example:



- CANCEL will be highlighted **Teal** by default. Use the touch screen to select MPEG.



- CANCEL will be highlighted **Teal** by default. Use the touch screen to select MCU.



- Once MCU is pressed the update will begin. A percentage graph will display the progress. The data will be sent from the disc, and then the data will be written to the head unit microprocessor. After the update is complete the disc will reboot and the Update Menu will be displayed.
- Remove the disc.
- Press the **RESET** button in the lower right-hand corner (below the joystick) of the head unit front panel.
- The update is now complete.

MOBILE AUDIO

MULTIMEDIA

Source Selection with NAV101

Listening to a Source, while navigating, is possible with the VM9412 / VM9512 and VM9022.

VM9412 / VM9512

- After navigation has begun, press the SRC button to select the Source Menu.
- Select a Source.
- To view navigation, but continue to listen to the selected Source, press and hold the DISP on the TFT flip-out panel (Top right-hand corner). The DISP button will toggle between the navigation map and your selected Source.
- In addition, the VM9512 has PIP (Picture in Picture), which can be utilized to view navigation while another Source is selected, but no navigation voice prompts will be heard when using the PIP function.

VM9022

- After navigation has begun, press the SRC button to select the Source Menu.
- Select a Source.
- To view navigation, but continue to listen to the selected Source, press and hold the PIP on the front panel. The PIP button will toggle between the navigation map and your selected Source.
- In addition, the VM9022 has PIP (Picture in Picture), which can be utilized to view navigation while another Source is selected, but no navigation voice prompts will be heard when using the PIP function.